

Funding Boost Lowers Deficit

Long, arduous months of lobbying the provincial government for additional University funding by President Myer Horowitz and the University has paid off to the tune of \$10 million. Dave Russell, Deputy Premier and Minister of Advanced Education, announced recently that approximately \$10 million in additional 1988-89 funding will be divided among Alberta's post-secondary education institutions.

The University portion of the money cuts our accumulated deficit to \$1.7 million. According to President Horowitz the additional funding was a fair response to the University's requests. "We are pleased to have received the grant," Dr. Horowitz commented. "It will make a difference because it decreases our predicted deficit even though not all of our problems have been solved."

Mr. Russell thanked all boards of governors and administrations at Alberta institutions for their "work in meeting difficult budget challenges this year and for providing the highest quality post-secondary education available." □

New Equipment for Rheumatic Disease Unit

Two new pieces of equipment will soon be aiding arthritis research in the Rheumatic Disease Unit, thanks to a donation of more than \$4,600 from the Lupus Erythematosus Society of Alberta-Edmonton Chapter.

The money will buy a highspeed centrifuge for spinning test samples of blood and fluids, as well as a computerized power supply to provide the necessary electricity to separate small fractions of proteins.

Lupus (its full name is systemic lupus erythematosus) is one of the arthritic diseases, and in its early stages can easily be taken for arthritis. "These items will help us make an accurate diagnosis sooner," says medical lab technologist Carol Johnston. "They were on our shopping list, and it's a real bonus to get them sooner. They speed up a lot of the tests we do, including in depth studies of drugs and their effects on arthritis, and single cell function studies." □

University of Alberta

FOLIO

University of Alberta

28 July 1988

New University Policy Restricts Smoking to Designated Areas in Buildings

The wrapper is off the University of Alberta smoking policy.

The various constituent groups have responded to a questionnaire, a policy has been drafted, fine-tuned and approved by the powers that be, designated smoking areas have been pinpointed, and red and green stickers are being posted around campus. The countdown is well and truly on.

On 1 September, the University no-smoking policy takes effect.

The policy has a two-year history, starting when Gordon Weir was appointed coordinator, Occupational Health and Safety in 1986. One of his first pieces of mail was a letter from President Myer Horowitz concerning the development of a no-smoking policy. Mr. Weir polled the two staff associations and the two student associations, a process that took more than a year. (The AASUA's response rate of 71 percent was the highest by far.)

The results of those surveys, written comment from people in various departments, and the leanings of society (increasing restrictions on smoking in hospitals and various forms of transportation) resulted in the drafting of a policy on smoking in the workplace, by a subcommittee of the of the President's Standing Committee on Occupational Health and Safety Policy.

After some modifications, the main one being the addition of more designated smoking areas to the four that were originally selected, the policy moved through channels, the final word being expressed by the Board of Governors on 13 May 1988. (The provision that even more areas can be reserved for smoking hasn't been eliminated.)

"Many people who smoke don't want to smoke and a number of them support the policy from the point of view of reducing the



With the new smoking policy soon coming into effect, smoker Lorraine Bohan (Public Affairs) conditions herself early to lighting up outside.

temptation and bolstering their willpower," Mr. Weir says.

Consideration is being given to providing a program of support, where feasible, to assist those who want to stop smoking.

The policy contains no mechanism for enforcement. This was assiduously avoided because the University is not out to persecute smokers. "The complaint is not against smokers but against smoke. It's an important but subtle distinction," Mr. Weir emphasizes.

Folio has it on good authority that there will be no SWAT teams roaming the campus and enforcing the letter of the policy.

One reason for the 1 September starting date is that it was felt it would be unfair to students to bring in the policy in the midst of the academic year.

Except for a few places—some of the chemistry labs, for

example—the air in University buildings is re-circulated. But with smokers in an ever diminishing minority, as Mr. Weir points out, the University has no plans to spend money on improving circulation systems.

One spinoff benefit of the policy: carpet and drape cleaning bills will decline. □

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28 July 1988

University of Alberta Smoking Policy

Preamble

Exposure to tobacco smoke is a health hazard to all as well as an annoyance to many. All persons on the University's campus, whether students, staff or visitors, have the right to breathe clean indoor air, particularly in places of common use such as auditoria, washrooms, passages, workplaces and classrooms.

Policy

All buildings or parts of buildings under the control of the University are non-smoking areas, subject to the exceptions set out below.

The principal entrances to all buildings or parts of buildings will have signs informing all persons that the University's policies prohibit smoking except in designated areas. The absence of such signs at any building entrance, however, does not affect the general prohibition against smoking.

Exceptions

(1) Designated Areas

Smoking will be permitted in designated areas of cafeterias and lunchrooms operated by Housing and Food Services. Such designated space will not exceed 33 percent of the space available. Certain lounge space may also be designated as smoking space.

(2) Residences

Policies affecting smoking in residences will be determined by the relevant Student Community Association in consultation with Housing and Food Services.

(3) Leased Buildings

The smoking policy does not apply in any University building used totally for non-University purposes.

(4) HUB International (Mall)

Policies affecting smoking in the commercial areas of HUB International will be determined by the University's leasing agency (currently the Bookstore).

(5) North Power Plant

Policies affecting smoking in the North Power Plant will be determined by the Graduate Students' Association, in consultation with the other tenants in the building.

(6) Students' Union Building (SUB)

Policies affecting smoking in the space in SUB under the control of the Students' Union will be determined by the Students' Union.

Implementation

(1) Transitional

This policy does not invalidate the no-smoking provisions in buildings where occupants have determined at an earlier date that the building shall be smoke free.

(2) Date

From 1 September 1988 this policy shall be in full force.

(3) Signage

(a) The sign shown in Appendix A to be used at building entrances as stipulated in the policy.

(b) A similar sign, depicting a cigarette enclosed with a green circle, and accompanied by the text "Smoking Permitted" (Appendix B), shall be used to identify designated smoking areas. □



Smoking Prohibited
Except in
Designated Areas

Appendix A



Smoking Permitted
In This
Area Only

Appendix B

Giesbrecht Joins Music Department

The first person ever to receive a Doctor of Music degree in Applied Music (Organ Performance) from a Canadian university has been appointed Assistant Professor of Organ in the Department of Music.

Joining the Department, effective 1 July, is Marnie Giesbrecht, who was awarded this doctorate earlier in the year by our University—the only school in Canada to offer this program of study.

An accomplished organist and pianist, Dr. Giesbrecht has been a sessional lecturer in the Department and at The King's College in Edmonton. She has acted as an examiner for the Western Board of Music and the Royal Canadian College of Organists and as music director for First Presbyterian and Third Christian Reformed Churches in the city.

Dr. Giesbrecht has played several world premières, won numerous concerto competitions, gold medals and scholarships, and has been awarded two Licentiate of Music diplomas, one in organ and one in piano from the Western Board of Music. □

Lost Any Jewelry?

A mysterious piece of jewelry was found in N Zone parking lot some three weeks ago.

Is it a locket? Is it an earring? Is it valuable, or just a pretty bauble? And who does it belong to?

Campus Security would really like to return it to the owner.

If you think it may be yours, call Gwen or Susan at Campus Security, 432-5252, to describe and claim it. □

FOLIO

Volume Twenty-six
Number Two

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Public Affairs produces *Folio*
on a regular basis for the
staff and other interested
persons.



University
of
Alberta

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Notice of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50.

Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made.

Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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ISSN 0015-5764
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The Role of the Interactive Research University

Bob James, Vice-President (Research), delivered the Report to Convocation on 7 June. The gist of his remarks follows.

University has three primaryities: teaching, research and service. All are educational and centre upon the creation, discovery and transfer of knowledge. They build upon the elementary and high school programs of our province and country. Because of this, the school programs are of prime interest to the University and our institution must place a high priority in participating in the total educational program of our community. The knowledge transfer service of our institution to the schools must be emphasized.

The importance to society of the entire educational program has many examples, but I will mention one. In Japan, the most prestigious award made annually by their manufacturing industry is called the Deming Award. Deming is an American who developed a sophisticated method of manufacturing quality control and the Japanese have been highly successful in implementing his methods. The same success has not been realized in North America because, in part, of the lack of arithmetic and statistical skills among our workers. I have read that in Canada, 30 percent of our students drop out before gaining high school diplomas compared to the 4 percent for Japan. Furthermore, the claim is that 65 percent of the entrepreneurs and over 90 percent of patent holders in our country are immigrants. In terms of its research and development workforce, Canada is alone with Spain and Greece as the only Western countries with declining numbers. Currently, in terms of the number of scientists and engineers per ten thousand of population, Canada is behind such countries as Japan, the United States, Germany, France and Britain. Our number is 23 out of 10,000 compared to the corresponding numbers of 65, 62, 45, 41, and 34. From 1970 to 1982, the annual enrolment of PhDs at Canadian universities in science and engineering dropped from approximately 4,100 to about 3,100. Gordon MacNabb, past president of the Natural Sciences and Engineering Research Council, says we need an increase of 850 percent per year if we are to match our industrial competitors.

Considerable effort is needed in the field of education in Canada to

help address these contemporary problems. We have had important successes in strengthening the bilingual nature of our country and creating a better understanding between anglophone and francophone communities. Another bilingual problem which needs further attention is one that emphasizes the critical importance of being able to communicate through both linguistics or cultural languages and mathematics. The aforementioned comparative figures without a doubt demonstrate the need for improving Canadian mathematical skills. At the same time, one is constantly being reminded both in our surrounding community and within our institution of the needs to advance student linguistic capabilities. Recently at the Prairie and Northwest Territories Regional Conference on Innovation and Technology, industrial representatives repeatedly stated the need for improvement of the writing and verbal skills of university graduates.

An abundant source of talent exists among the female population which, to a significant degree, has been latent in the mathematically-based disciplines. For example, at our University only approximately 25 percent of the science and engineering graduates are female. Intense effort must be made to have our young women participate more fully in the mathematically-based disciplines if Canada is to fully benefit from their talent. In January, the Government of Canada announced a new scholarship program for undergraduate science and engineering students at universities. The total funding for the program over five years is \$80 million. In order to address, in part, the lack of participation of women in science and engineering, the program requires that 50 percent of the scholarships are for female students.

To improve the educational skills of our population an even larger investment must be made in programs which emphasize the linguistic and mathematical disciplines. This requires new initiatives to improve the quality of school curriculum and to strengthen the qualifications of elementary and secondary school teachers. Today's event symbolizes such strengthening. The expectations are great that today's graduates and tomorrow's teachers

Continued on Page 4

Christopher Scarfe, 1941-1988

Christopher Scarfe, Geology, was killed tragically while jogging on the morning of 20 July.

Dr. Scarfe was awarded the prestigious McCalla Professorship and a Killam Research Fellowship earlier this year for his innovative research in geochemistry, petrology and geophysics on high pressure studies of melts in the earth's mantle.

On joining the University in 1972, Dr. Scarfe steadily developed a new facility, expanding the geology department's embryonic high pressure laboratory (transferred from the Alberta Research Council) with equipment capable of pressures to 40 kilobars and 200 degrees centigrade.

Experimental petrology was not a favored subject in Canada when he first arrived here but he persisted, becoming well known internationally for his work on the structure and physical properties of silicate melts. He also supervised research on natural occurrences of basalts in the Atlantic Ocean, British Columbia and the NWT.

His first major collaborator was E. Takahashi from Tokyo, and together they published numerous papers of distinction—including providing a color picture of one of their synthetic samples for the cover of the magazine *Nature*.

Dr. Scarfe quickly realized the significance of very high pressure equipment, newly developed in Japan, and successfully lobbied for a major equipment grant. Superpress, which arrived in February of this year, was the result of the largest NSERC grant ever given to an earth scientist, together with major support from the University. Quickly assembling a team of researchers, Dr. Scarfe brought Superpress into immediate



Christopher Scarfe

operation, producing diamonds within a month of start-up. Major discoveries concerning the range of stability of hydrous silicates have already been made on melting studies and the stability of komatiites and carbonates are well underway at pressures up to 200 kilobars.

In addition to his academic awards, Dr. Scarfe published 51 research papers and made a great contribution to teaching in his department. Dr. Scarfe was at the leading edge of his subject and his advice was sought by students and colleagues, on campus and elsewhere.

Born in England, Dr. Scarfe graduated from the University of Durham and began his career in experimental petrology at the University of Chicago. He returned to England to complete his PhD at the University of Leeds, assisting there in the development of a high-pressure laboratory.

Dr. Scarfe leaves his wife Eunice, daughters Sarah and Emily, and many friends and colleagues. □

University Archives Receives Grant to Spruce Up Banff School of Fine Arts' Records

The University of Alberta Archives has received a \$9,900 grant from the National Archives of Canada to help make the records of the Banff School of Fine Arts more readily accessible to the public.

The grant is part of the Arrangement and Description Backlog Reduction Cost Shared Cooperative Program developed by the National Archives on the advice of the Canadian Council of Archives. The grant was recommended to the CCA by the Alberta Archives Council.

The records of the Banff School

of Fine Arts date from its establishment in 1933, as part of the Faculty of Extension, to 1966. The 33.0 metres of correspondence, reports, programs, etc. include the records of the former director, Donald Cameron. These records constitute the collective memory of the School, and form a valuable record of the development of the arts in Alberta and Canada.

The arrangement and description of these records (desired result: a descriptive inventory) will begin in August. □

Interactive Research University

Continued from page three

will instill an increased interest for the linguistic and mathematical-based disciplines among students.

Leadership Role

With this background, I would like to mention that the University has a leadership role in the overall education in the province and, in this regard, to turn to some of the issues addressed by the University Research Policy Committee. It has reviewed "The Next Decade and Beyond" documents, and has given special attention to the section relating to the creation, discovery and dissemination of knowledge for the position of the committee is that this section addresses the fundamental role of the University. In fact, the policy committee took the position that the central task of the University is to undertake, nurture and promote the growth of quality programs and projects to further this prime role. The position taken is that the goal of the University of Alberta should be to realize a significant expansion of this role in the next decade and beyond. This endeavor necessitates a major effort to attract, develop and retain talent.

In the process of redoubling the efforts to strengthen scholarship and research on campus, emphasis must be given to exceptional leadership at the University from among its executive branch. Such leadership is a necessity for generating the policies, and the esprit de corps necessary for dynamic research and scholarly programs. This ongoing activity includes maintaining and improving working conditions that open opportunities for individuals to grow and to reach their potential. The appreciation of talent and the importance of tolerance must be foremost characteristics in developing the collegial environment so necessary for success.

As well as leadership, resources are essential in this mission. Salaries, benefits and facilities must be competitive with those offered in the international workplace. The competition for quality faculty members is becoming acute. Junior faculty members are receiving in a number of disciplines starting salaries in the range of \$60,000 per annum in the US. Renowned performers can command salaries in the U.S. and Europe of \$150,000 per annum or more. In one instance in the US an institute funded at the level of \$27 million was founded to keep an acclaimed faculty member. Also, in order to attract the most talented individuals, some

universities will negotiate for such researchers consulting contracts with industry. At present, urgency exists to have funds for capital and alterations available to attract and retain talented faculty members. In the US, junior faculty members in the physical sciences and medicine can receive upon appointment \$100,000 to \$200,000 in capital funds to establish their laboratories. When hiring accomplished researchers with a proven record, universities both in the US and Europe at times offer between \$1 million and \$2 million in capital funds for assembling the individual's laboratory. The competition is not restricted to outside Canada; universities in other provinces are, now, able to out-compete us.

At the University of Alberta in the last number of months we have lost the services of at least three or four most senior and accomplished researchers and we are likely only witnessing the beginning of this onslaught. Our competitiveness is weakening.

Overhead Costs Troublesome

In the search for resources, the position of Canadian universities is compounded because none of the federal granting agencies cover overhead costs. The costs must be assumed by the universities from other sources. Consequently, as a university becomes significantly more successful in the competition for more research grant funds, the overhead must be drawn from other funding areas within the institution. Hence, many of the non-research areas, including teaching, become taxed to meet the overhead demands. Last year, the University of Alberta received in excess of \$35 million in grants from the federal granting agencies. If these grants had overhead included at the level the federal government provides for contract research, the University would likely have received a further \$4 million. This figure is in excess of this year's University budgeted deficit. One can see that overhead costs for the aforementioned grants are significant. This issue will become an even bigger factor on the drain of university resources and a divisive internal institutional matter.

I would like to turn to another topic of major importance for funding research. On 13 January of this year, Prime Minister Mulroney announced an additional \$1.3 billion in federal funding for science and technology initiatives over five years with the funding decisions recognizing the regional realities of Canada. Of this sum, approximately \$250 million will be

devoted to the centres (network) of excellence program. The latest information is that excellence will be the prime criterion and determined through peer review by an international jury. Other important factors are the networking between established research teams and the ability of the submission to show the integration of its program with national policies and the accommodation of its thrust with regional strengths. The centres of excellence program will be administered through the three national granting agencies, the Natural Sciences and Engineering Research Council, the Medical Research Council, and the Social Sciences and Humanities Research Council. Already, the program has stimulated considerable activity; many proposals are being developed on campus. The latest count is in excess of twenty. Energy and enthusiasm, imagination and hope are all parts of the initiatives. This wave of optimism will result, if not treated with care, in unrealistic expectations. Possibly ten centres across Canada will ultimately be approved and so many individuals and groups will be unsuccessful. The disappointment could be demoralizing and lead to major dislocations in morale among our researchers. Such a scenario must be avoided. At the University of Alberta, we should regard the centres of excellence program as a vehicle for assisting in the initiation of new research program proposals. However, our effort should be directed towards a long-term research plan. The centres of excellence program should be regarded as only one possible funding vehicle for each of our major research initiatives. Also, we should fully expect that many of our submissions will not be successful and so our expectations should remain modest and realistic. If projects are unsuccessful in the centres of excellence competition, this should only be regarded as a setback and that the next step would be to approach other

potential funding sources. Our mission is long-term success.

Since the centres of excellence program of the federal government appears not to provide funding for overhead, a major obstacle in framing a viable proposal is finding a source of funds to cover these costs. The overhead problem facing Canadian universities has already been mentioned. Because of their financial constraints, universities including ours, will find providing overhead costs for centres of excellence extremely difficult. Potential sources to be explored for these funds are the provincial government and the private sector.

Before submitting proposals for centres of excellence to the federal authorities, the University must undertake an initial adjudication. This task will be assumed by an ad hoc committee established by the University Research Policy Committee. The results will be referred to my office, and ultimately submitted to the appropriate federal agencies.

Emminent Chancellor, many things are to be done if our community is to be in the economic mainstream of the leading industrial nations. In 1965, Canada dropped for the first time from second to third among nations in terms of standard of living. Before that date, Canadians accepted that our country ranked second in such ratings. Unfortunately, in those days being number two was accepted without question, and may be part of Canada's problem. Since 1965, Canada has continued to take a downward spiral, and we now rank between sixth and eighth among nations, depending upon the criteria. No doubt, Canada aspires to a higher ranking. In fact, our country should never see number one beyond its grasp. To turn events around, and to improve Canada's relative position in terms of standard of living, major strides must be made to enhance research and scholarship in the country, because they are, I believe, a key to prosperity.□

Endowment Fund Expended

Dave Russell, Deputy Premier and Minister of Advanced Education, recently announced that the Alberta Advanced Education Endowment and Incentive Fund has been totally committed. (Last day for applications was 14 July.) The fund was established to encourage private sector involvement in the province's public post-secondary education system.

The fund provided two matching dollars for every dollar raised privately by the educational

institutions to create endowments, and one dollar for each capital and operating dollar donated. Together with the 1980s Endowment Fund, nearly \$302 million has been injected into the province's public secondary education institutions.

The provincial government is currently considering a successor to the very successful Endowment Incentive Fund, the terms and conditions of which will be announced as soon as possible.□

Job Trading Program Invites Applications

If life is a journey, Don Paradis and Derek Cox will remember the side trip they took in 1987.

The two administrative and professional officers—Mr. Paradis with Food Science, Mr. Cox with Comptroller's office—were the to trade jobs under the Job Trading Program for APOs. Each occupied the other's chair for six months (January through June 1987).

Mr. Cox went from a larger, more centralized function to a smaller department. He saw himself as a specialist in the Comptroller's office and a generalist in Food Science.

The core duties in both offices are much the same, he said.

The aim of the program is to rejuvenate APOs and reduce job burnout. Mr. Cox sums up the switch by saying, "It didn't make a new man of me but it was a super break."

Mr. Paradis recommends the program because "it's a great way to get a broader experience base on campus." He would definitely do it again, but "not for a few years because it's a big commitment."

Mr. Cox reported to Fred Wolfe, chairman of the Department of Food Science, and Mr. Paradis reported to A.S. Knowler, then Comptroller. The switch is most

beneficial to the switchees, but there is bound to be additional work for the head of the each department, Dr. Wolfe told *Folio*. For example, with Mr. Cox not being familiar with Food Science's dealings with private industry, other staff members had to help out from time to time. "It's a given that a little extra work will be generated by a job switch," he says.

Mr. Knowler, who retired from the position of Comptroller last year and is now working in a fund-raising capacity at St. Joseph's College, recalls that Mr. Paradis made the transfer to the world of travel claims and figures "with amazing ease." He had a good understanding at the outset of University policies and procedures and a particularly good knowledge of financial procedures, budgeting in particular, which made the trade go better, Mr. Knowler says.

Mr. Knowler and Eva Cherniavsky, coordinator of the "trading partners" program, feel that the change should be for 12 months to get the maximum benefit.

The Job Trading Program for APOs is conducted by the Office of Academic Administration. It is open to all APOs who are interested in expanding their

professional expertise through a temporary appointment elsewhere, provided a suitable trading partner can be found.

A person's salary continues to be paid by his/her home department and holidays are also regulated by the home department.

Interested individuals should write to Eva Cherniavsky, Administrative Officer (Academic Administration), 3-13 University Hall, or call 432-4588. Enquiries will be treated on a confidential basis. □

Acting and Associate Deans for Grad Studies

Stephen Arnold has been appointed Acting Dean of the Faculty of Graduate Studies and Research for one year, 1 July to 30 June, 1989. Dean F.S. Chia is on leave and will resume the position on 1 July, 1989. Dr. Arnold can be contacted at 432-2816.

Dr. Gary Prideaux, Department of Linguistics, has been appointed Associate Dean in Graduate Studies, effective 1 July.

Dr. Prideaux is responsible for the areas involving the Social Sciences and Humanities Research Council. He can be reached at 432-5658. □

New Chair in Neurology

A \$400,000 donation from the Henri M. Toupin Medical Foundation will make possible the establishment of the Henri M. Toupin Chair in Neurological Sciences in the Faculty of Medicine.

The donation will receive a two times matching grant from the provincial government thus establishing the Chair in perpetuity to allow for much needed research in neurology, with specific reference to geriatric neurology. The Chair will be located at the Edmonton General Hospital and a committee has already been struck to select the occupant, with the hope of filling the Chair within a year.

The Toupin Foundation was created at the request of the late Dr. Henri M. Toupin, a noted medical neurologist and professor in Edmonton. Dr. Toupin bequeathed a substantial amount of money to start a foundation whose goal would be to establish research in neurology and to have those research endeavors located at the Edmonton General Hospital. □

U of A to Work With Calgary Centre

The University of Calgary will be the home of the recently announced Centre of Excellence in Training Teachers of Gifted Students. The Centre was created as a result of a \$3 million endowment, \$1 million of which was received from the Kahanoff Foundation and matched with a \$2 million contribution from the Advanced Education Endowment and Incentive Fund.

The Centre will work closely with the University of Alberta to ensure that teachers and students throughout the province benefit from the programs developed as a result of this project.

Commenting on the new Centre, Dave Russell, Deputy Premier and Minister of Advanced Education, said, "There is a strong public interest in programs for gifted students in our school systems and this new centre will enhance provincial training opportunities and create resource materials for teachers who work with gifted students throughout Alberta."

The centre will receive an annual grant of \$240,000 for five years from the \$3 million endowment. At the conclusion of five years, a comprehensive evaluation will be conducted to look at the success of the project and determine ongoing funding. □

Successful Final PhD Oral Examinations

Name	Department	Final Thesis Title
Fahiem Ivor Bacchus	Computing Science	"Representing and Reasoning with Probabilistic Knowledge"
Douglas Campbell Currie	Entomology	"Morphology and Systematics of Primitive Simuliidae (Diptera: Culicomorpha)"
Catherine Jane Field	Medicine	"Modulation of Adipocyte Membrane Composition and Insulin Action in Normal and Diabetic States by Dietary Fat"
N. Neil Friedenberg	Educational Psychology	"Hypnosis and Pain Management"
Robert Philip Haines	Educational Psychology	"Hypnotherapeutic Reduction of Dental Patients' Distress"
Philip Simon John Kreisel	Physical Education and Sport Studies	"High School Basketball Players' Perceptions of Their Coaches' Use of Social Power"
James Malcolm MacPherson	Microbiology	"Isolation, Characterization and Nucleotide Sequence of Six Human Tyrosine Accepting tRNA Genes"
Jeanne Martha Perreault	English	"Writing the Self: Feminist Autography in the United States"
Karin Patrick Timoney	Botany	"A Geobotanical Investigation of the Subarctic Forest-Tundra of the Northwest Territories"
Patricia Ellen Beatrice Valentine	Educational Administration	"A Hospital School of Nursing: A Case Study of a Predominantly Female Organization"

Conference Aimed at "Bridging the Gap"

The problems associated with telling the public about science and the importance of science are the major themes behind "Bridging the Gap: Science and the Media". The conference, for scientists and journalists, is being held at the University of Calgary, 22 to 24 September.

Sponsored by the graduate program in communications studies at U of C, the conference features experts from science and journalism.

Arnold Naimark, University of Manitoba President, AUCC President and medical researcher in cellular physiology, will present the keynote address, and David Strangway, University of British Columbia President, former Killam Prize recipient and research consultant to NASA, will speak at the evening banquet.

Other participants include Jay Ingram, host of CBC radio's "Quirks and Quarks", and Jim Murray, executive producer of "The Nature of Things". Researchers who will discuss science literacy include Jon Miller, author of *Citizenship in an Age of Science*, and Sharon Dunwoody, author of *Scientists and Journalists*.

Workshops will help scientists give better TV and radio interviews and write for lay audiences. For journalists, the conference will also showcase the research of scientists in Western Canada.

For more information contact Marian Davis, Communication Studies Program, Social Sciences 548, University of Calgary, Calgary, T2N 1N4, 220-6357. □

Come Eat and Dance in the Quad

The Quad will be the scene of a lively party next Thursday.

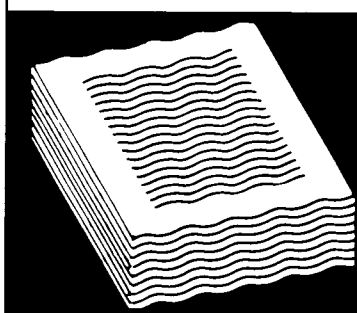
There'll be a barbecue, and a buffet loaded with goodies, then dancing to live music by the Rault Brothers. And all for a mere \$3.95.

The occasion? It's the annual summer picnic on the Quad, sponsored by Housing and Food Services.

"Everyone's invited—staff and students and friends and neighbors too," says marketing manager Joe Winter.

So bring an appetite and your dancing shoes and join the fun in the Quad, 4 August, 11 a.m. to 1.30 p.m. □

Currents



Skateboarding for Kids

Campus Recreation Green Office is sponsoring a session on skateboarding for children. The lessons take place on Saturday, 6 August from 10 am to 1 pm. For information call 432-3614.

Volunteers Wanted

Volunteers are required (men and women, 35 years and above) for 24-hour monitoring of pH in the distal esophagus to establish normal control data. This test carries no risk and imposes little discomfort. Telephone J. Koo at 453-6512. Volunteers will be paid.

Retirement Reception for George Cunningham

George Cunningham, facilities manager of the Students' Union, will be retiring effective 12 August 1988. An informal wine and cheese reception will be held that day in 270A Students' Union Building. The reception will start at 2 p.m.; all interested persons are welcome to attend.

Reception for Shirley Dean

Shirley Dean will retire on 31 August after 27 years of service at the University of Alberta. She was the Employee Relations Coordinator from 1980 to 1986 and most recently Personnel Services' Planning Coordinator.

An informal reception in her honor will be held on Friday, 12 August, from 3 to 5 p.m. in the Upper Lounge of the Faculty Club. Friends and colleagues are cordially invited to attend.

A gift will be presented to the Personnel Services and Staff Relations' Resource Centre in Shirley's name. Those wishing to make a donation towards this gift are invited to send contributions to Carol Burgess, Personnel Services and Staff Relations, 2-40 Assiniboia Hall. Please R.S.V.P. by 8 August to Carol Burgess, 432-5201.

Reception to Honor A.T. (Al) Robertson

The Department of Planning and Development will hold a farewell reception in honor of Al Robertson, who will retire on 1 September.

A reception will be held from 3 to 6 p.m. on Thursday, 25 August, at the Faculty Club. Friends and colleagues are cordially invited to attend.

Those wishing to make a donation towards a farewell gift may forward a cheque payable to the "A.T. Robertson Retirement Fund", by 19 August, to Emma Molina (432-4966), Planning and Development, 480 General Services Building.

Reception for Tim Miner

The Office of the Vice-President (Administration) will hold a reception to honor Tim Miner, Director of Planning and Development, prior to his departure at the end of August to lead in planning activities at the University of British Columbia.

The reception will be held on Friday, 26 August, at University House, 3:30 to 6 p.m., and friends and colleagues are cordially invited to attend.

Those wishing to contribute to a parting gift to mark this occasion may forward donations by 19 August, made payable to the 'Miner Gift Fund', c/o Miss C. Arends, Planning and Development, 480 General Services Building.

Reception for Pat Brogdon and Betty Donald

To honor the retirement of Mrs. H.P. Brogdon and Dr. E.A. Donald, the Department of Foods and Nutrition will hold a reception, 8 September, 4 to 6 p.m. in the Heritage Room, Athabasca Hall. Friends and associates are cordially invited to attend.

For details please call Brenda Woodall, Department of Foods and Nutrition, Room 308, Home Economics Building (432 3831).

The Arts

Exhibitions Ring House Gallery

Until 28 August. "The Summer Show"—works by Barbara Tipton, Tom O'Flanagan and Franklyn Heisler.

SUB Theatre

4 August, 8 p.m. Oregon and Montreux in concert. 432-4764.

Positions

The University of Alberta is an equal opportunity employer.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

President, University College of Cape Breton

University College of Cape Breton is seeking a new President.

University College is a dynamic and relatively new institution located close to Sydney on the beautiful island of Cape Breton. Established in 1974, the University College was given the power by the Provincial Legislature to grant its own degrees in June 1982.

It is the principal post-secondary institution in Cape Breton offering a comprehensive range of degree programs in liberal arts and science, diplomas in business and engineering technologies, and trades certification.

Current enrolment is 1,800 full-time, and 800 part-time students as well as an additional 1,000 students in non-credit programs.

In addition to its undergraduate programs, University College has a mandate to deliver specialized training programs to industry, to assist existing enterprises improve their competitiveness through technology transfer, and to foster the cultural heritage of the Island.

The candidate for President will have outstanding academic and administrative

credentials, strong skills in government relations and the ability to communicate effectively with faculty, students, staff and members of the external community.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The new President will be expected to make an imaginative and vigorous commitment to increase the resources of University College by playing a leadership role in a major financial campaign.

The initial term appointment of up to six (6) years will begin 1 July 1989. Applications should be received on or before 31 October 1988.

Send applications to: Secretary, Presidential Search Committee, P.O. Box 5300, University College of Cape Breton, Sydney, Nova Scotia B1P 6L2.

Cooperative Education Coordinator

The Faculty of Engineering offers a Cooperative Education Program in which students supplement their academic studies with related work experience.

The Centre for Cooperative Education assists Co-op students in their search for suitable employment and monitors their performance on the job. As a Cooperative Education Coordinator, you will:

- Market the program to potential employers of co-op students
- Evaluate student work term performance through job site visits
- Instruct a job search skills course for co-op students
- Counsel students

This position involves interfacing with employers, students, and faculty, and requires excellent marketing, communications and interpersonal skills. Some travel is required.

The preferred candidate will have a university degree, a strong interest in post-secondary education, and 5-plus years of work experience which must include two or more years in a marketing function. Complementary experience in teaching and personnel recruitment is desirable.

This is a full-time position with an Administrative Professional Officer designation. The floor of the salary range is \$27,792.

Interested candidates should forward their resume, by 31 August, to: Dr. K.C. Porteous, Associate Dean, Faculty of Engineering, University of Alberta, 502 Students' Union Building, Edmonton, Alberta, T6G 2J7

The University of Alberta is committed to the principle of equity in employment.

Administrative/Professional Officer, Special Sessions, Faculty of Extension

Applications are invited for the position of Administrative Professional Officer in the Special Sessions Office, Faculty of Extension.

The APO reports to the Director of Special Sessions and assists in the planning, organization, and administration of the Spring Session, Summer Session and the Off-Campus Credit Program. The position involves extensive liaison with most academic and administrative units within the University as well as frequent contact with students, the public, and representatives of other educational organizations in central and northern Alberta.

The incumbent is also responsible providing an efficient administrative support system through the selection, supervision, and evaluation of non-academic staff. Other responsibilities include budget control,

Calendar production and promotion of Special Sessions programs. A limited amount of travel within Alberta would be necessary.

Applicants must have a University degree and administrative experience in a university setting. (Relevant experience may be considered in lieu of a degree.) Excellent interpersonal skills and the ability to communicate effectively verbally and in writing are required. Experience with OAS, MTS and micro-computer systems would be an asset.

Salary will be commensurate with qualifications and experience—the current salary range is \$26,506 to \$39,754.

The anticipated date of appointment is 3 October, 1988. Applications should be received by 15 August, 1988.

Applications, including a resume and the names of three referees, should be sent to Mr. K.L. Carswell, Director, Special Sessions, Faculty of Extension, 4-107 Education II, University of Alberta, Edmonton, Alberta, T6G 2G5.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 15 July. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Senior Clerk, Office of the Comptroller, (\$1,263-\$1,568)
Clerk Steno II (Trust), Anatomy and Cell Biology, (\$1,263-\$1,568)
Clerk Typist II (Trust), Office of the Dean of Dentistry, (\$1,263-\$1,568)
Clerk Typist II, Sociology, (\$1,263-\$1,568)
Housing Worker Lead Hand, Housing and Food Service, (\$1,310-\$1,627)
Library Checkpoint Attendant, Cameron Hall, (\$1,352-\$1,697)
Clerk Steno III (Trust), Biochemistry, (\$1,407-\$1,767)
Clerk Steno III (Technical Typist), Faculty of Business, (\$1,407-\$1,767)
Clerk Steno III, University Secretariat, (\$1,407-\$1,767)
Clerk Typist III (Recurring Term), Dental Health Care, (\$1,407-\$1,767)
Clerk Typist III, Career and Placement Services, (\$1,407-\$1,767)
Medical Steno (Split-funded), Medicine (Nephrology and Immunology), (\$1,568-\$2,003)
Medical Steno (Split-funded), Medicine (Palliative Care), (\$1,568-\$2,003)
Library Assistant II, H.T. Coutts, (\$1,627-\$2,088)
Library Assistant II, Faculté Saint-Jean, (\$1,627-\$2,088)
Technical Assistant III, Technical Services, (\$1,407-\$1,767)
Dental Assistant II (Hourly/Term), Dentistry, (\$9.97-\$12.66/hr.)
Distribution Clerk, Materials Management, (\$1,627-\$2,088)
Shipping and Receiving Clerk, Materials Management, (\$1,627-\$2,088)
Technician I/II (Trust), Pediatrics, (\$1,627-\$2,373)
Technician II, Physics, (\$1,845-\$2,373)
Programmer Analyst I (Term), Instructional Technology Centre, (\$2,003-\$2,585)
Technologist I (Trust/Term), Civil Engineering, (\$2,003-\$2,585)
Technologist I/II (Trust), Pathology, (\$2,003-\$2,823)
Administrative Assistant I (Residence Coordinator), Housing and Food Services, (\$2,003-\$2,585)
Administrative Assistant I, Alumni Affairs, (\$2,003-\$2,585)

Administrative Assistant I (Part-time/Term), Personnel Services and Staff Relations, (\$1,202-\$1,551) (pro-rated)
Nurse (Trust), Medicine, (\$2,088-\$2,703)
Electron Microscope Technician III, Physics, (\$2,088-\$2,703)
Technologist II (Trust), Animal Science, (\$2,178-\$2,823)
Technologist II (Term), Boreal Institute for Northern Studies, (\$2,178-\$2,823)
Programmer Analyst II, Office of the Registrar, (\$2,373-\$3,082)
Programmer Analyst III (Term), University Computing Systems, (\$2,823-\$3,686)
Programmer Analyst III, Office of the Comptroller, (\$2,823-\$3,686)
Programmer Analyst III, Library Systems, (\$2,823-\$3,686)
For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, B.C.
Sale - Deluxe condominium, 11016 86 Ave. Lots of appeal and pizzazz. Professionally decorated, custom blinds, fireplace, underground parking. Multi level, two spacious bedrooms, laundry room. Joy Murray, 438-6111, NRS Realty.
Rent - Three-bedroom, furnished, luxury condominium. Westridge, 11 km to University. \$800 plus utilities. Available August or September till 30 June 1989. Contact Kennedy, 432-4713 or Bella, 426-7980, 438-2924.
Rent - Fifteen minutes northeast, spacious, three bedrooms, ranch style, master bedroom with half bath, dining area, large covered patio, attached double garage, private treed yard. \$650. Mike, 998-2295.
Rent - Garneau Mews. Exquisite condominium, furnished, air conditioned, six appliances, fireplace. September 1988 to April 1989 then month to month. Western Relocation Services Limited, 438-1044.
Sale - Windsor Park. Three-bedroom bungalow. Spacious rooms with new kitchen, bath. Fireplace, double garage, developed full basement. 11728 83 Ave. \$149,000. 433-8667.
Rent or Sale - Two bedroom bungalow with basement suite. Ten minute walk to University. 433-4081. (432-3301).
Sublet - To responsible tenants fully furnished apartment downtown highrise. September to April. Double bedroom and den with double hide-a-bed, color TV. Two parking stalls. \$600/month. \$500 damage deposit. 488-9616.
Sale - \$63,500. Upgraded condominium 86 Avenue. All appliances, grey carpet, laundry facilities. Spacious one bedroom with lots of room for extra hide-a-bed. Phone today! Joy Murray, NRS Realty, 438-6111.
Sublet - Two bedroom condo near University, furnished or unfurnished, reasonable. 1st August. 435-4460. 439-1115 evening.
Sale - Garneau. \$169,000 restored three bedroom, two baths, hardwood, French doors. New kitchen, two wood fireplaces, Westec security. Walk to University and hospital. 487-6150. Royal LePage.
Rent - Blue Quill. Exquisite condominium, three bedrooms, two storeys, jacuzzi, library, finished basement. Furnished or semi

furnished, \$1,200/month, one year lease. Western Relocation, 438-1044.
Sale - By owner. Westend, Willowdale home. Three-bedroom bungalow, cul-de-sac. Double, attached garage. 1,300'. Neutral walls, broadloom. Two, four-piece bathrooms, large deck. No agents. 481-0131.
Rent - Upgraded bungalow, twelve minute drive University. Finished basement \$900. 483-5416.
Rent - Garden enthusiasts only. Spacious, self-contained, main floor, two bedrooms, close to campus. No pets, \$440 plus utilities. 439-2104.
Rent - One-bedroom, high rise condominium. 1,100 sq. ft., twelfth floor, east view. Walking distance University. Five appliances, swimming pool, jacuzzi, sauna, underground parking. \$700/month. 433-7871 mornings or evening.
Rent - One bedroom, furnished apartment, 9908 114 St. Pool, sauna. 1 October-30 April. Mature individual. Damage deposit. \$700/month. 488-7316 evenings, weekends.
Rent - Windsor Park home. Recently renovated, one block from campus. Three bedrooms, finished basement. Mature tenants. Available immediately, \$850. 436-1336 5-10 p.m.
Rent - Riverbend. Three bedroom townhouse, fully furnished. Six appliances. Non-smokers, family preferred. Fifteen minutes from University. Available August 1988-January 1989. \$700. 430-6024.
Sale - North Windsor Park. 1700' home in good location. Two fireplaces. Bright kitchen. Fully developed west yard. For details, call Chris Tenove. 436-5250. 433-5664. Spencer Realty.
Sale - Acreage only one mile off Devon highway. 1660' bungalow main floor family room. Two fireplaces. Nicely treed. Very private. Not in subdivision. Chris Tenove. 436-5250. 433-5664. Spencer Realty.
Sale - Large city lots. Some ravine. Super subdivision. Chris Tenove. 436-5250. 433-5664. Spencer Realty.
Sale - Hubbles Lake. 4-38 acres. Nicely treed. Chris Tenove. 436-5250. 433-5664. Spencer Realty.
Rent - Choice Clareview location. Close to LRT. Executive house. Four

bedrooms, family room, 2 1/2 baths, fireplace, attached garage, landscaped, appliances, drapes. Year's lease. \$900. No pets. 478-0167.
Rent - Two bedroom bungalow with six appliances, garden, renovated kitchen. Walking distance to University. Couple preferred, kids welcome. Non-smokers. No pets. September to May. 437-2979. \$750.
Sale - Bright, contemporary taste, semi-bungalow. A "10". Many upgrades. Heated double garage. To view call Marlene Hildebrandt. Re/Max Real Estate, 458-8300, 455-2048.

Accommodation wanted

Japanese girls, 23 years old, seeking home stay in English speaking family for three months from September. Excellent reference. 434-8952.

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Suzuki 1985 SJ413 4x4 hardtop, 30,000 km. Extras. Mint condition. 433-4081. (432-3301).
1981 Chev. BelAir V8. Ps, pb, a/c, new brakes/muffler. Excellent condition. Moving USA. \$2,200 OBO. 465-6837.

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